



## **Pinewood Engineering Diploma Program**

Effective 2017-2018, Pinewood will be offering an engineering diploma program designed for those interested in pursuing engineering as a major in college and possible career. The purpose of the program is to expose students to a variety of concepts, skills and applications that once completed, provide the student with a solid background for undergraduate study.

The foundation of the engineering diploma at Pinewood is a considerable sequence of college level mathematics and science enjoined with specific courses in technology and Idea Lab, as well as a required pre-engineering course. Candidates interested in pursuing this program must complete a research/design project in Idea Lab and an internship in an engineering field as part of their Leadership Institute requirement. The pre-engineering course must be taken prior to the Idea Lab project.

Requirements for the Engineering Diploma Program are:

- Honors Pre-Calculus, Honors Calculus, or Advanced Placement Calculus (AB or BC)
- Honors or Advanced Placement Physics
- Honors or Advanced Placement Statistics
- Pre-Engineering Course (one semester Honors course)
- Computer Science (one quarter)
- Research/Design Project In Idea Lab (one semester)
- Cyber Defense or Robotics (four quarters in some combination)
- Internship in engineering field (meets Leadership requirement)

Students completing these requirements will receive a special diploma at graduation. Many of these courses will sync with existing graduation requirements in science, mathematics, and technology. Each of these components is designed to deliver an innovative and top-quality pre-engineering curriculum while engaging students in hands-on, collaborative activities they will need to develop the skills necessary to pursue engineering degrees and careers.

*Where exceptional happens every day.*

